

Fermilab

TESLA Technology Collaboration Meeting

December 5 - 8, 2023



TTC Scientific Program Committee

- Detlef Reschke (DESY), SPC Co-Chair
- Hiroshi Sakai (KEK), SPC Co-Chair
- Eiji Kako (KEK), TTC Chair
- Bob Laxdal (TRIUMF), Deputy TTC Chair
- Sergey Belomestnykh (FNAL)
- Grigory Ereemeev (FNAL), LOC Chair
- Jie Gao (IHEP)
- Catherine Madec (CEA)
- Anne-Marie Valente-Feliciano (JLAB)
- Hans Weise (DESY)
- Akira Yamamoto (CERN/KEK)

TTC Local Organization Committee

- Grigory Ereemeev (FNAL), LOC Chair
- Daniel Bafia (FNAL)
- Sergey Belomestnykh (FNAL)
- Bianca Giaccone (FNAL)
- Tammy Gloss (FNAL)
- Evelynn Mendez (FNAL)
- Christina O'Neal (FNAL)
- Lezlee Ongena (FNAL)

<https://indico.fnal.gov/event/60446/>



Report of TTC Collaboration Board meeting in TTC2023-Ferimilab

Eiji Kako (KEK), TTC Chair
Bob Laxdal (TRIUMF), TTC Deputy Chair

December 8th, 2023

















Agenda of meeting



1. Report from TTC Chair:
 - Membership of TESLA Technology Collaboration
 - VISA Issues
 - TTC Statement and Action Regarding Ukraine
2. Host Laboratory for future TTC meeting:
 - Summer of 2024' at Europe:
 - Winter of 2024'/25' at Asia:
3. Regional rotation of host Laboratory
4. Legal issues on new TTC membership
5. Others

Membership of TESLA Technology Collaboration

October 11th, 2022
Reconfirmation and approval by the Collaboraion Board

Country	Institute	Department
	<ul style="list-style-type: none"> Ko-Enerugi Kasokuki Kenkyū Kikō, KEK Rikagaku Kenkyūjo, RIKEN Institute for Quantum and Radiological Science and Technology, QST Japan Atomic Energy Agency, JAEA 	Accelerator Laboratory, RNC, Rokkasho Fusion Institute
	<ul style="list-style-type: none"> The Henryk Niewodniczanski Institute of Nuclear Physics AGH University of Science and Technology National Centre for Nuclear Research, NCJR, Swiark Institute of High Pressure Physics, Warsaw Uniwersytet Warszawski Lodz University of Technology, TUL Warsaw University of Technology, ISE 	IEJ.PAN, Department of Solid State Physics, Accelerator physics, NCBIr, Faculty of Physics, Institute of Physics, The Faculty of Electronics and Information Technology & The Faculty of Physics
	<ul style="list-style-type: none"> Moscow Engineering Physics Institute, MEPhI Budker Institute for Nuclear Physics, BINP Institute of High Energy Physics, JHEP-Protvino Institute for Nuclear Research, INR 	Institute of Nuclear Physics and Engineering, Russian Academy of Sciences (BINP, SB RAS), Department of High Energy Physics, FFPF MIPT, link will be added soon
	<ul style="list-style-type: none"> Institute for Basic Science, IBS 	Rare Isotope Science Project
	<ul style="list-style-type: none"> Uppsala University 	ERIEA
	<ul style="list-style-type: none"> Argonne National Laboratory, ANL Fermi National Accelerator Laboratory, FNAL Cornell University, Ithaca NY Thomas Jefferson National Accelerator Facility Stanford Linear Accelerator Center, SLAC Lawrence Berkeley National Laboratory, LBNL Michigan State University, MSU Oak Ridge National Laboratory, SNS Brookhaven National Laboratory, BNL 	Accelerator Development, FAST, CLASSE, Jefferson Lab, LCLS-II, Accelerator Technology and Applied Physics Division, Accelerator Science and Engineering Research Accelerator Division, RBRC
European Organisations		
	<ul style="list-style-type: none"> European Spallation Source, ESS 	ESS Accelerator Division & LINAC
International Organisations		
	<ul style="list-style-type: none"> European Council for Nuclear Research, CERN 	CERN's accelerator complex
	<ul style="list-style-type: none"> Joint Institute for Nuclear Research, JINR, Dubna 	Research Facilities
	<ul style="list-style-type: none"> CANDLE, Yerevan Yerevan Physics Institute, YrPhI 	CANDLE Coordinator, website under construction
	<ul style="list-style-type: none"> IRIUMF, Canada's particle accelerator centre 	ARIEL
	<ul style="list-style-type: none"> Institute for High Energy Physics, IHEP Tsinghua University Peking University Institute of Modern Physics, IMP, Lanzhou Shanghai Institute of Applied Physics, SINAP Institute of Advanced Science Facilities – Shenzhen, IASF 	Accelerator Technology and Science, Department of Engineering Physics, link will be added soon, LINAC Center, CAS
	<ul style="list-style-type: none"> Commissariat à l'Energie Atomique, CEA/DSM, Saclay Centre national de la recherche scientifique, CNRS, Paris LAL, became part of IJCLab, Orsay Institut de Physique Nucléaire, IPN, Orsay Synchrotron, SOLEIL 	IRFU DACM, link will be added soon, Accelerator Department, SUPRATECH, link will be added soon
	<ul style="list-style-type: none"> Helmholtz-Zentrum Berlin, HZB Technische Universität Darmstadt Universität Frankfurt am Main Helmholtz-Zentrum Geesthacht, HZG Deutsches Elektronen-Synchrotron, DESY Universität Hamburg Helmholtz-Zentrum Dresden-Rossendorf, HZDR Universität Rostock Bergische Universität Wuppertal Johannes Gutenberg Universität Mainz 	SupraLab, S-DALINAC & TEME, Accelerator Physics, Institute of Materials Research, FLASH & XEEL & MKS & MSL, Accelerator Physics, ELBE, Electromagnetic Field Theory, Field Emission, MESA
	<ul style="list-style-type: none"> Science and Technology Facilities Council, STFC Royal Holloway University of London University College London The John Adams Institute for Accelerator Science 	Accelerator Science, SuperFab, UK-CSOS, Department of Physics and Astronomy, link will be added soon
	<ul style="list-style-type: none"> Raja Ramanna Centre of Advanced Technology, RRCAT Bhabha Atomic Research Centre, BARC Inter-University Accelerator Centre, IUAC & Delhi University, DU Variable Energy Cyclotron Centre, VECC 	Superconducting Cavities Development Division, Physical Science, Superconducting Linear Accelerator, Superconducting Cyclotron Beam Development Section
	<ul style="list-style-type: none"> INFN, Laboratori Nazionali di Frascati INFN, Laboratori Nazionali di Legnaro INFN, Laboratori Acceleratori e Superconduttività Applicata, Milano INFN, Roma Tor Vergata Elettra Sincrotrone Trieste 	COLD Lab, Superconductivity, LASA, Rome II & ATLAS, Sincrotrone Trieste

Total 64 institutions from 17 countries and regions

16 Lab. representatives and 10 proxies attended. (44%)

Attending (31) :

Eiji Kako (KEK) [chair], Bob Laxdal (TRIUMF) [notes],
Naruhiko Sakamoto (RIKEN), Akira Yamamoto (KEK), Anne Marie Valente-Feliciano (JLab), Peter McIntosh (STFC), Christian Pira (INFN LNL), Hiroshi Sakai (KEK), Han Li (IASF), Marc Wenscat (U. Hamburg), Cong Zhang (IHEP), Walter Hartung (FRIB), Jun Tamura (JAEA), Oliver Kugeler (HZB), Detlef Reschke (DESY), Hans Weise (DESY), Myeun Kwon (IBS/IRIS), Yeonsei Chung (IBS/IRIS), Catherine Madec (CEA), Qiong Wu (BNL), Qing Ji (LBNL), Dan Gonnella (SLAC), Paolo Pizzol (ORNL), Frank Gerigk (CERN), Carlo Pagani (INFN Milan-LASA), Cecilia Maiano (ESS), Roger Ruber (Uppsala University), Sergey Belomestnikh (FNAL), Rongli Geng (JLab), Akira Miyazaki (IJCLab), Jiankui Hao (PKU)

Host Laboratory for next TTC meeting (1)



Meeting	Host Laboratory	Location	Date
TTC'2022 (remote)	QST/KEK	Remote	2022', Jan.
TTC'2022 (in person)	QST	Aomori	2022', Oct.
SRF2023'	MSU	Michigan	2023', June
TTC'2023 (in person)	FNAL	Chicago	2023', Dec.
TTC'2024 (in person)	EU ?	?	(2024', Summer) ?
TTC'2025 (in person)	Asia ?	?	(2024'/25', Winter) ?
SRF2025'	RIKEN	Tokyo	2025, Sept.
TTC'2026 (new Chair)	(???) ????	(????)	(2025/26, Winter ?)

Schedule of International Conference in 2024'-25' season

Conference	Date	Institution	Location
IPAC 2024'	May, 20-24	SNS	Tennessee, USA
Linear Collider WS 2024'	July, 8-11	Tokyo Univ./KEK	Tokyo, Japan
LINAC 2024'	August, 26-30	ANL	Chicago, USA
Thin-Film WS 2024'	September, 16-20	CEA-Saclay	Paris, France
ERL WS 2024'	September, 24-27	KEK	Tsukuba, Japan
IPAC2025'	May/June	NSRRC	Taiwan

If you know any other conferences, please add the schedule.

TTC-2024'

Date: 2024' Nov. 12 - 15

Host Laboratory: ESS

Location: Lund, Sweden



TTC-2025'

Date: 2025' March/April

Host Laboratory: IBS-IRIS

Location: Daejeon, S-Korea



IBS 기초과학연구원
Institute for Basic Science

RISP 중이온가속기건설구축사업단
Rare Isotope Science Project

We have started the first TTC-SPC meeting for the next TTC meeting at FNAL in June (6 months before the TTC meeting) to avoid the potential VISA issues of the participants from China. Consequently, this was not enough time to solve these VISA issues in the present situation.

→ We need to think the effective method for the solution.

Discussion-1:

- Similar situation will exist in IPAC2024 on May 19-24 at Tennessee, USA and in LINAC2024 on Aug. 25-30 at ANL, USA.
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One important suggestion:

It is important to consider and discuss in the TTC-CB meeting at FNAL that we need to change our rotation principle and should have **more meetings in Europe than in the N-AM or in China** to avoid the VISA issues.

Another important suggestions:

- Keep regional (EU, AMs and AS) rotation as possible we can,
- Keep the pure in-person meeting in case of less VISA issues such as EU institute hosting,
- **Allow remote participation with very limited fraction**, in case of inevitable VISA and any other outstanding occasion.

TTC meeting in Europe may keep the most prioritized concept of the meeting in person, and TTC meeting in AMs and AS keep the face-to-face meeting concept **even though physical in-person concept to be a little affected**.

The most important concept should be the “face-to-face” discussion with keeping **fair rotation and fair opportunity** anyone who is hoping to contribute to the SRF community around the world.

Discussion-2:

- . **We need more insight discussion and continue in the future TTC-CB meetings.**

From the minutes of TTC-CB meeting at Aomori in 2022 Oct. 11th:

After concluding the discussion, the point was raised that adding the two institutes to the TTC would require a modification to the MOU and there was concern that **any formal acknowledgment in the MOU during the Russian crisis may cause the MOU to be rejected by certain lab managements.** After much discussion it was concluded that we should make a statement that the two institutes will be **added as future members with all benefits of a full member, but we would not formalize this for the moment in the MOU.** This was viewed as a reasonable compromise.

Discussion-3:

- . There is need to discuss possible ways for a formal new TTC membership.
 - further discussion has been left for future meetings.

See you again at Lund in Nov. 2024'





Thank you for your attention!